

APPLICATION NO.

10/551,675

23474

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ATTORNEY DOCKET NO.	CONFIRMATION NO	
4364.P0013US	5519	
EXAMINER		
HESS, BRUCE H		
ART UNIT .	PAPER NUMBER	
1794		
MAIL DATE	DELIVERY MODE	

PAPER

01/25/2008

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Takashi Date

The time period for reply, if any, is set in the attached communication.

01/25/2008

FILING DATE

09/29/2005

7590

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FLYNN THIEL BOUTELL & TANIS, P.C.

·		Application No.	Applicant(s)		
		10/551,675	DATE ET AL.		
•	Office Action Summary	Examiner	Art Unit		
		Bruce H. Hess	1794		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF THE	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONET	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status					
1)[∑]	1) Responsive to communication(s) filed on 12-8-06				
	This action is FINAL. 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allowan		secution as to the merits is		
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) X Claim(s) 1-11 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)♥️ Claim(s) 1- 11 is/are rejected.					
7)					
8)	Claim(s) are subject to restriction and/or	election requirement.			
Applicati	on Papers				
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
200 the attached detailed embe detail for a list of the definied copies hot received.					
Attachmen					
	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Paper No(s)/Mail Date				
3) 🔽 Inforr	Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application				
Paper Ne(s)/Mail Date 12-8-0 € 6) ☐ Other:					

(. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Hata et al. (JP 09-207435).

Hata et al. teach the advantages of employing a thermally sensitive recording layer that can comprises 1) an acrylic polymer obtained by copolymerizing an alkyl acrylate, an alkyl methacrylate and vinylsilane and 2) silica. The acrylic polymer can further contain styrene or acrylonitrile. The experimental modification of this prior art in order to ascertain optimum operating conditions (e.g., determine the silica particle size) fails to render applicants' claims patentable in the absence of unexpected results.

2, Claims 1, 3-6, 8, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of the patents to Ishida et al. (EP 0 326 964 or USP 4,977,133).

The Ishida et al. patents. teach the advantages of employing a thermally sensitive recording layer that can comprises 1) an acrylic polymer obtained by copolymerizing an alkyl acrylate, an alkyl methacrylate and vinylsilane and 2) silica. The acrylic polymer can further contain styrene. The experimental modification of this prior art in order to ascertain optimum operating conditions (e.g., determine the silica particle size) fails to render applicants' claims patentable in the absence of unexpected results.

3. Claims 2, 7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over either of the patents to Ishida et al. in view of the patent to Hata et al.

The primary references apply as per the preceding paragraph. Given the advantages of employing acrylonitrile in an alkyl acrylate/ alkyl methacrylate/vinylsilane containing copolymer in a thermally sensitive recording layer as taught by the

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secondary reference, use of acrylonitrile in the alkyl acrylate/ alkyl methacrylate/vinylsilane containing copolymer of the primary references would have been obvious to one of ordinary skill in this art in the absence of unexpected results.

HUCE H. HESS
RIMARY EXAMINER
GROUP 1300